

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:39:06 ON 07 MAY 2008

=> fil .bec

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.21

0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS,
ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 13:39:21 ON 07 MAY 2008
ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s cysk or cysteine synthase#

FILE 'MEDLINE'

82 CYSK

73445 CYSTEINE

107612 SYNTHASE#

269 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L1 309 CYSK OR CYSTEINE SYNTHASE#

FILE 'SCISEARCH'

58 CYSK

55567 CYSTEINE

129731 SYNTHASE#

242 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L2 280 CYSK OR CYSTEINE SYNTHASE#

FILE 'LIFESCI'

53 CYSK

21199 "CYSTEINE"

29544 SYNTHASE#

109 CYSTEINE SYNTHASE#

("CYSTEINE"(W)SYNTHASE#)

L3 146 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOTECHDS'

58 CYSK

5098 CYSTEINE

7240 SYNTHASE#

70 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L4 95 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOSIS'

82 CYSK

72786 CYSTEINE

118475 SYNTHASE#

275 CYSTEINE SYNTHASE#

(CYSTEINE(W)SYNTHASE#)

L5 335 CYSK OR CYSTEINE SYNTHASE#

FILE 'EMBASE'

65 CYSK

57869 "CYSTEINE"

108341 SYNTHASE#

233 CYSTEINE SYNTHASE#

("CYSTEINE"(W)SYNTHASE#)

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L6          266 CYSK OR CYSTEINE SYNTHASE#

FILE 'HCAPLUS'
    207 CYSK
    113054 CYSTEINE
    114637 SYNTHASE#
    426 CYSTEINE SYNTHASE#
        (CYSTEINE(W)SYNTHASE#)
L7          537 CYSK OR CYSTEINE SYNTHASE#

FILE 'NTIS'
    0 CYSK
    521 CYSTEINE
    294 SYNTHASE#
    0 CYSTEINE SYNTHASE#
        (CYSTEINE(W)SYNTHASE#)
L8          0 CYSK OR CYSTEINE SYNTHASE#

FILE 'ESBIOBASE'
    46 CYSK
    28558 CYSTEINE
    54244 SYNTHASE#
    124 CYSTEINE SYNTHASE#
        (CYSTEINE(W)SYNTHASE#)
L9          154 CYSK OR CYSTEINE SYNTHASE#

FILE 'BIOTECHNO'
    43 CYSK
    22339 CYSTEINE
    29457 SYNTHASE#
    130 CYSTEINE SYNTHASE#
        (CYSTEINE(W)SYNTHASE#)
L10         151 CYSK OR CYSTEINE SYNTHASE#

FILE 'WPIDS'
    52 CYSK
    11722 CYSTEINE
    6793 SYNTHASE#
    51 CYSTEINE SYNTHASE#
        (CYSTEINE(W)SYNTHASE#)
L11         72 CYSK OR CYSTEINE SYNTHASE#

TOTAL FOR ALL FILES
L12         2345 CYSK OR CYSTEINE SYNTHASE#

=> s (serine or ser)(15a)(rich or high or level# or yield# or optimiz?)
FILE 'MEDLINE'
    104476 SERINE
    24227 SER
    97298 RICH
    1628405 HIGH
    1728866 LEVEL#
    148032 YIELD#
    86595 OPTIMIZ?
L13         6126 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'SCISEARCH'
    60386 SERINE
    25468 SER
    182902 RICH
    2495375 HIGH

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1857333 LEVEL#
469670 YIELD#
296759 OPTIMIZ?
L14      5582 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'LIFESCI'
25076 SERINE
12695 SER
42324 RICH
452482 HIGH
519831 LEVEL#
64869 YIELD#
23816 OPTIMIZ?
L15      3464 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'BIOTECHDS'
5782 SERINE
5928 SER
5272 RICH
85899 HIGH
60173 LEVEL#
43309 YIELD#
21488 OPTIMIZ?
L16      708 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'BIOSIS'
82532 SERINE
26259 SER
134104 RICH
1833264 HIGH
1945774 LEVEL#
380018 YIELD#
85361 OPTIMIZ?
L17      7142 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'EMBASE'
67554 SERINE
24058 SER
86612 RICH
1556063 HIGH
1965291 LEVEL#
157476 YIELD#
82286 OPTIMIZ?
L18      5467 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'HCAPLUS'
119700 SERINE
38596 SER
315641 RICH
4313341 HIGH
2553316 LEVEL#
1269022 YIELD#
360435 OPTIMIZ?
L19      10355 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
?)

FILE 'NTIS'

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        578 SERINE
        438 SER
        9733 RICH
        340332 HIGH
        238143 LEVEL#
        56808 YIELD#
        62468 OPTIMIZ?
L20      81 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
        ?)

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FILE 'ESIOBASE'
        32396 SERINE
        14901 SER
        56532 RICH
        641710 HIGH
        717809 LEVEL#
        95471 YIELD#
        42201 OPTIMIZ?
L21      4374 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
        ?)

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FILE 'BIOTECHNO'
        28989 SERINE
        11924 SER
        29372 RICH
        299126 HIGH
        367944 LEVEL#
        41645 YIELD#
        16086 OPTIMIZ?
L22      3241 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
        ?)

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FILE 'WPIDS'
        11087 SERINE
        13584 SER
        41223 RICH
        2375938 HIGH
        706149 LEVEL#
        314587 YIELD#
        61673 OPTIMIZ?
L23      705 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
        ?)

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TOTAL FOR ALL FILES
L24      47245 (SERINE OR SER) (15A) (RICH OR HIGH OR LEVEL# OR YIELD# OR OPTIMIZ
        ?)

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=> s l12 and l24
FILE 'MEDLINE'
L25      13 L1 AND L13

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FILE 'SCISEARCH'
L26      9 L2 AND L14

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FILE 'LIFESCI'
L27      6 L3 AND L15

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FILE 'BIOTECHDS'
L28      2 L4 AND L16

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FILE 'BIOSIS'
L29      9 L5 AND L17

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FILE 'EMBASE'
L30      6 L6 AND L18

FILE 'HCAPLUS'
L31      12 L7 AND L19

FILE 'NTIS'
L32      0 L8 AND L20

FILE 'ESBIOBASE'
L33      5 L9 AND L21

FILE 'BIOTECHNO'
L34      8 L10 AND L22

FILE 'WPIDS'
L35      1 L11 AND L23

TOTAL FOR ALL FILES
L36      71 L12 AND L24

=> s l12 and coexpress?
FILE 'MEDLINE'
      15797 COEXPRESS?
L37      2 L1 AND COEXPRESS?

FILE 'SCISEARCH'
      16293 COEXPRESS?
L38      2 L2 AND COEXPRESS?

FILE 'LIFESCI'
      7659 COEXPRESS?
L39      2 L3 AND COEXPRESS?

FILE 'BIOTECHDS'
      826 COEXPRESS?
L40      1 L4 AND COEXPRESS?

FILE 'BIOSIS'
      16063 COEXPRESS?
L41      2 L5 AND COEXPRESS?

FILE 'EMBASE'
      14913 COEXPRESS?
L42      1 L6 AND COEXPRESS?

FILE 'HCAPLUS'
      15129 COEXPRESS?
L43      2 L7 AND COEXPRESS?

FILE 'NTIS'
      39 COEXPRESS?
L44      0 L8 AND COEXPRESS?

FILE 'ESBIOBASE'
      11681 COEXPRESS?
L45      1 L9 AND COEXPRESS?

FILE 'BIOTECHNO'
      7587 COEXPRESS?
L46      1 L10 AND COEXPRESS?

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FILE 'WPIDS'
      215 COEXPRESS?
L47      0 L11 AND COEXPRESS?

TOTAL FOR ALL FILES
L48      14 L12 AND COEXPRESS?

=> s (amino acid or ser or serine)(15a)(composition# or profil?)
FILE 'MEDLINE'
      679698 AMINO
      1545785 ACID
      512917 AMINO ACID
            (AMINO(W)ACID)
      24227 SER
      104476 SERINE
      189419 COMPOSITION#
      295830 PROFIL?
L49      14609 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'SCISEARCH'
      436194 AMINO
      1284495 ACID
      229538 AMINO ACID
            (AMINO(W)ACID)
      25468 SER
      60386 SERINE
      481688 COMPOSITION#
      450081 PROFIL?
L50      10441 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'LIFESCI'
      188499 "AMINO"
      346634 "ACID"
      128460 AMINO ACID
            ("AMINO" (W) "ACID")
      12695 SER
      25076 SERINE
      112277 COMPOSITION#
      70621 PROFIL?
L51      6520 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOTECHDS'
      77138 AMINO
      156885 ACID
      56317 AMINO ACID
            (AMINO(W)ACID)
      5928 SER
      5782 SERINE
      48820 COMPOSITION#
      13472 PROFIL?
L52      3057 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOSIS'
      607898 AMINO
      1529894 ACID
      351102 AMINO ACID
            (AMINO(W)ACID)
      26259 SER
      82532 SERINE
      399670 COMPOSITION#
      283754 PROFIL?

```

L53 25509 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'EMBASE'

477055 "AMINO"

1561386 "ACID"

322430 AMINO ACID
 ("AMINO" (W) "ACID")

24058 SER

67554 SERINE

169493 COMPOSITION#

246818 PROFIL?

L54 13983 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'HCAPLUS'

1167276 AMINO

4574559 ACID

588346 AMINO ACID
 (AMINO (W) ACID)

38596 SER

119700 SERINE

1045977 COMPOSITION#

1531580 COMPN

2132732 COMPOSITION#
 (COMPOSITION# OR COMPN)

510830 PROFIL?

L55 40071 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'NTIS'

7322 AMINO

45258 ACID

2654 AMINO ACID
 (AMINO (W) ACID)

438 SER

578 SERINE

72162 COMPOSITION#

59406 PROFIL?

L56 237 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'ESBIOBASE'

205248 AMINO

402935 ACID

113740 AMINO ACID
 (AMINO (W) ACID)

14901 SER

32396 SERINE

104790 COMPOSITION#

121152 PROFIL?

L57 4140 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'BIOTECHNO'

204625 AMINO

349810 ACID

154660 AMINO ACID
 (AMINO (W) ACID)

11924 SER

28989 SERINE

38895 COMPOSITION#

42958 PROFIL?

L58 6366 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

FILE 'WPIDS'

299450 AMINO

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1143063 ACID
87042 AMINO ACID
      (AMINO(W)ACID)
13584 SER
11087 SERINE
845784 COMPOSITION#
8849 COMPN
398425 COMPSN
114205 COMPSNS
1029782 COMPOSITION#
      (COMPOSITION# OR COMPN OR COMPSN OR COMPSNS)
221069 PROFIL?
L59 5574 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

TOTAL FOR ALL FILES
L60 130507 (AMINO ACID OR SER OR SERINE) (15A) (COMPOSITION# OR PROFIL?)

=> s 112 and 160
FILE 'MEDLINE'
L61 8 L1 AND L49

FILE 'SCISEARCH'
L62 8 L2 AND L50

FILE 'LIFESCI'
L63 3 L3 AND L51

FILE 'BIOTECHDS'
L64 2 L4 AND L52

FILE 'BIOSIS'
L65 18 L5 AND L53

FILE 'EMBASE'
L66 8 L6 AND L54

FILE 'HCAPLUS'
L67 18 L7 AND L55

FILE 'NTIS'
L68 0 L8 AND L56

FILE 'ESBIOBASE'
L69 3 L9 AND L57

FILE 'BIOTECHNO'
L70 4 L10 AND L58

FILE 'WPIDS'
L71 2 L11 AND L59

TOTAL FOR ALL FILES
L72 74 L12 AND L60

=> s (heterologous or foreign or recombinant) (5a)protein#(10a)(produc? or express?
or optimiz?)
FILE 'MEDLINE'
53007 HETEROLOGOUS
65999 FOREIGN
294716 RECOMBINANT
2245712 PROTEIN#
1479209 PRODUC?

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1189611 EXPRESS?
86595 OPTIMIZ?
L73 11277 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'SCISEARCH'
25505 HETEROLOGOUS
35464 FOREIGN
175583 RECOMBINANT
1774394 PROTEIN#
2135740 PRODUC?
1526773 EXPRESS?
296759 OPTIMIZ?
L74 11472 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'LIFESCI'
16860 HETEROLOGOUS
9728 FOREIGN
78715 RECOMBINANT
683363 PROTEIN#
600691 PRODUC?
488130 EXPRESS?
23816 OPTIMIZ?
L75 8672 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOTECHDS'
12440 HETEROLOGOUS
6925 FOREIGN
110954 RECOMBINANT
179354 PROTEIN#
246622 PRODUC?
166239 EXPRESS?
21488 OPTIMIZ?
L76 31791 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'BIOSIS'
35675 HETEROLOGOUS
35956 FOREIGN
213769 RECOMBINANT
2115796 PROTEIN#
2167262 PRODUC?
1447830 EXPRESS?
85361 OPTIMIZ?
L77 13912 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'EMBASE'
24656 HETEROLOGOUS
36978 FOREIGN
196365 RECOMBINANT
1841094 PROTEIN#
1393403 PRODUC?
1092766 EXPRESS?
82286 OPTIMIZ?
L78 9173 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN# (10A) (PRODUC
? OR EXPRESS? OR OPTIMIZ?)

FILE 'HCAPLUS'
35433 HETEROLOGOUS

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53583 FOREIGN
215028 RECOMBINANT
2507260 PROTEIN#
4739035 PRODUCE?
1080289 PRODN
5257422 PRODUCE?
      (PRODUCE? OR PRODN)
1446128 EXPRESS?
360435 OPTIMIZE?
L79 26253 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUCE
      ? OR EXPRESS? OR OPTIMIZE?)

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FILE 'NTIS'
      358 HETEROLOGOUS
390920 FOREIGN
      1887 RECOMBINANT
      20815 PROTEIN#
383352 PRODUCE?
42085 EXPRESS?
62468 OPTIMIZE?
L80 186 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUCE
      ? OR EXPRESS? OR OPTIMIZE?)

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FILE 'ESBIODASE'
      15205 HETEROLOGOUS
      12571 FOREIGN
      98984 RECOMBINANT
      881143 PROTEIN#
      712812 PRODUCE?
      696236 EXPRESS?
      42201 OPTIMIZE?
L81 9584 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUCE
      ? OR EXPRESS? OR OPTIMIZE?)

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FILE 'BIOTECHNO'
      14199 HETEROLOGOUS
      6070 FOREIGN
      125134 RECOMBINANT
      653195 PROTEIN#
      394590 PRODUCE?
      452182 EXPRESS?
      16086 OPTIMIZE?
L82 8130 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUCE
      ? OR EXPRESS? OR OPTIMIZE?)

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FILE 'WPIDS'
      11979 HETEROLOGOUS
      52020 FOREIGN
      52731 RECOMBINANT
      195750 PROTEIN#
      2700178 PRODUCE?
      159549 EXPRESS?
      61673 OPTIMIZE?
L83 6267 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A)PROTEIN#(10A) (PRODUCE
      ? OR EXPRESS? OR OPTIMIZE?)

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TOTAL FOR ALL FILES
L84 136717 (HETEROLOGOUS OR FOREIGN OR RECOMBINANT) (5A) PROTEIN#(10A) (PRODUCE
      ? OR EXPRESS? OR OPTIMIZE?)

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=> s 112 and 184
FILE 'MEDLINE'

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L85 5 L1 AND L73
FILE 'SCISEARCH'
L86 5 L2 AND L74
FILE 'LIFESCI'
L87 6 L3 AND L75
FILE 'BIOTECHDS'
L88 6 L4 AND L76
FILE 'BIOSIS'
L89 3 L5 AND L77
FILE 'EMBASE'
L90 2 L6 AND L78
FILE 'HCAPLUS'
L91 9 L7 AND L79
FILE 'NTIS'
L92 0 L8 AND L80
FILE 'ESBIOBASE'
L93 4 L9 AND L81
FILE 'BIOTECHNO'
L94 2 L10 AND L82
FILE 'WPIDS'
L95 2 L11 AND L83
TOTAL FOR ALL FILES
L96 44 L12 AND L84
=> s 160 and 184
FILE 'MEDLINE'
L97 56 L49 AND L73
FILE 'SCISEARCH'
L98 55 L50 AND L74
FILE 'LIFESCI'
L99 42 L51 AND L75
FILE 'BIOTECHDS'
L100 568 L52 AND L76
FILE 'BIOSIS'
L101 65 L53 AND L77
FILE 'EMBASE'
L102 70 L54 AND L78
FILE 'HCAPLUS'
L103 196 L55 AND L79
FILE 'NTIS'
L104 0 L56 AND L80
FILE 'ESBIOBASE'
L105 48 L57 AND L81

FILE 'BIOTECHNO'
L106 74 L58 AND L82

FILE 'WPIDS'
L107 61 L59 AND L83

TOTAL FOR ALL FILES
L108 1235 L60 AND L84

=> s l108 and coli
FILE 'MEDLINE'
272003 COLI
L109 33 L97 AND COLI

FILE 'SCISEARCH'
261958 COLI
L110 29 L98 AND COLI

FILE 'LIFESCI'
111372 COLI
L111 24 L99 AND COLI

FILE 'BIOTECHDS'
50744 COLI
L112 140 L100 AND COLI

FILE 'BIOSIS'
328942 COLI
L113 32 L101 AND COLI

FILE 'EMBASE'
195802 COLI
L114 38 L102 AND COLI

FILE 'HCAPLUS'
299483 COLI
L115 75 L103 AND COLI

FILE 'NTIS'
2962 COLI
L116 0 L104 AND COLI

FILE 'ESBIOBASE'
82752 COLI
L117 20 L105 AND COLI

FILE 'BIOTECHNO'
94549 COLI
L118 32 L106 AND COLI

FILE 'WPIDS'
32693 COLI
L119 19 L107 AND COLI

TOTAL FOR ALL FILES
L120 442 L108 AND COLI

=> s (l36 or l48 or l72 or l96 or l120)
FILE 'MEDLINE'
L121 56 (L25 OR L37 OR L61 OR L85 OR L109)

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FILE 'SCISEARCH'
L122      49 (L26 OR L38 OR L62 OR L86 OR L110)

FILE 'LIFESCI'
L123      37 (L27 OR L39 OR L63 OR L87 OR L111)

FILE 'BIOTECHDS'
L124      146 (L28 OR L40 OR L64 OR L88 OR L112)

FILE 'BIOSIS'
L125      60 (L29 OR L41 OR L65 OR L89 OR L113)

FILE 'EMBASE'
L126      50 (L30 OR L42 OR L66 OR L90 OR L114)

FILE 'HCAPLUS'
L127      111 (L31 OR L43 OR L67 OR L91 OR L115)

FILE 'NTIS'
L128      0 (L32 OR L44 OR L68 OR L92 OR L116)

FILE 'ESBIOBASE'
L129      29 (L33 OR L45 OR L69 OR L93 OR L117)

FILE 'BIOTECHNO'
L130      43 (L34 OR L46 OR L70 OR L94 OR L118)

FILE 'WPIDS'
L131      23 (L35 OR L47 OR L71 OR L95 OR L119)

TOTAL FOR ALL FILES
L132      604 (L36 OR L48 OR L72 OR L96 OR L120)

=> s 1132 not 2004-2008/py
FILE 'MEDLINE'
      2828837 2004-2008/PY
              (20040000-20089999/PY)
L133      44 L121 NOT 2004-2008/PY

FILE 'SCISEARCH'
      5257377 2004-2008/PY
              (20040000-20089999/PY)
L134      35 L122 NOT 2004-2008/PY

FILE 'LIFESCI'
      610068 2004-2008/PY
L135      26 L123 NOT 2004-2008/PY

FILE 'BIOTECHDS'
      110412 2004-2008/PY
L136      79 L124 NOT 2004-2008/PY

FILE 'BIOSIS'
      2438788 2004-2008/PY
L137      50 L125 NOT 2004-2008/PY

FILE 'EMBASE'
      2465331 2004-2008/PY
L138      33 L126 NOT 2004-2008/PY

FILE 'HCAPLUS'
      5685072 2004-2008/PY

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L139          75 L127 NOT 2004-2008/PY

FILE 'NTIS'
      68767 2004-2008/PY
L140          0 L128 NOT 2004-2008/PY

FILE 'ESBIOBASE'
      1416926 2004-2008/PY
L141          18 L129 NOT 2004-2008/PY

FILE 'BIOTECHNO'
      586 2004-2008/PY
L142          43 L130 NOT 2004-2008/PY

FILE 'WPIDS'
      4801415 2004-2008/PY
L143          4 L131 NOT 2004-2008/PY

TOTAL FOR ALL FILES
L144          407 L132 NOT 2004-2008/PY

=> dup rem l144
PROCESSING COMPLETED FOR L144
L145          201 DUP REM L144 (206 DUPLICATES REMOVED)

=> s leptin
FILE 'MEDLINE'
L146          13799 LEPTIN

FILE 'SCISEARCH'
L147          18045 LEPTIN

FILE 'LIFESCI'
L148          1942 LEPTIN

FILE 'BIOTECHDS'
L149          365 LEPTIN

FILE 'BIOSIS'
L150          16507 LEPTIN

FILE 'EMBASE'
L151          14251 LEPTIN

FILE 'HCAPLUS'
L152          15687 LEPTIN

FILE 'NTIS'
L153          22 LEPTIN

FILE 'ESBIOBASE'
L154          8624 LEPTIN

FILE 'BIOTECHNO'
L155          2512 LEPTIN

FILE 'WPIDS'
L156          977 LEPTIN

TOTAL FOR ALL FILES
L157          92731 LEPTIN

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=> s l157(10a)(ser or serine)
FILE 'MEDLINE'
      24227 SER
      104476 SERINE
L158      12 L146(10A)(SER OR SERINE)

FILE 'SCISEARCH'
      25468 SER
      60386 SERINE
L159      15 L147(10A)(SER OR SERINE)

FILE 'LIFESCI'
      12695 SER
      25076 SERINE
L160      3 L148(10A)(SER OR SERINE)

FILE 'BIOTECHDS'
      5928 SER
      5782 SERINE
L161      5 L149(10A)(SER OR SERINE)

FILE 'BIOSIS'
      26259 SER
      82532 SERINE
L162      12 L150(10A)(SER OR SERINE)

FILE 'EMBASE'
      24058 SER
      67554 SERINE
L163      14 L151(10A)(SER OR SERINE)

FILE 'HCAPLUS'
      38596 SER
      119700 SERINE
L164      17 L152(10A)(SER OR SERINE)

FILE 'NTIS'
      438 SER
      578 SERINE
L165      0 L153(10A)(SER OR SERINE)

FILE 'ESBIOBASE'
      14901 SER
      32396 SERINE
L166      14 L154(10A)(SER OR SERINE)

FILE 'BIOTECHNO'
      11924 SER
      28989 SERINE
L167      4 L155(10A)(SER OR SERINE)

FILE 'WPIDS'
      13584 SER
      11087 SERINE
L168      5 L156(10A)(SER OR SERINE)

TOTAL FOR ALL FILES
L169      101 L157(10A)(SER OR SERINE)

=> s l157 and ((ser or serine)(8a)(rich or level#) or (amino acid)(2a)composition)
FILE 'MEDLINE'
      24227 SER

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104476 SERINE
97298 RICH
1728866 LEVEL#
3591 (SER OR SERINE) (8A) (RICH OR LEVEL#)
679698 AMINO
1545785 ACID
512917 AMINO ACID
      (AMINO(W)ACID)
179800 COMPOSITION
10381 (AMINO ACID) (2A)COMPOSITION
L170 8 L146 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
      )COMPOSITION)

FILE 'SCISEARCH'
25468 SER
60386 SERINE
182902 RICH
1857333 LEVEL#
3200 (SER OR SERINE) (8A) (RICH OR LEVEL#)
436194 AMINO
1284495 ACID
229538 AMINO ACID
      (AMINO(W)ACID)
433876 COMPOSITION
7145 (AMINO ACID) (2A)COMPOSITION
L171 7 L147 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
      )COMPOSITION)

FILE 'LIFESCI'
12695 SER
25076 SERINE
42324 RICH
519831 LEVEL#
1902 (SER OR SERINE) (8A) (RICH OR LEVEL#)
188499 "AMINO"
346634 "ACID"
128460 AMINO ACID
      ("AMINO" (W) "ACID")
107815 COMPOSITION
4806 (AMINO ACID) (2A)COMPOSITION
L172 1 L148 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
      )COMPOSITION)

FILE 'BIOTECHDS'
5928 SER
5782 SERINE
5272 RICH
60173 LEVEL#
246 (SER OR SERINE) (8A) (RICH OR LEVEL#)
77138 AMINO
156885 ACID
56317 AMINO ACID
      (AMINO(W)ACID)
43596 COMPOSITION
882 (AMINO ACID) (2A)COMPOSITION
L173 3 L149 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A)
      )COMPOSITION)

FILE 'BIOSIS'
26259 SER
82532 SERINE
134104 RICH

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1945774 LEVEL#
    3980 (SER OR SERINE) (8A) (RICH OR LEVEL#)
    607898 AMINO
    1529894 ACID
    351102 AMINO ACID
        (AMINO(W)ACID)
    364911 COMPOSITION
    19281 (AMINO ACID) (2A)COMPOSITION
L174      6 L150 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
        )COMPOSITION)

FILE 'EMBASE'
    24058 SER
    67554 SERINE
    86612 RICH
    1965291 LEVEL#
    3169 (SER OR SERINE) (8A) (RICH OR LEVEL#)
    477055 "AMINO"
    1561386 "ACID"
    322430 AMINO ACID
        ("AMINO" (W) "ACID")
    162494 COMPOSITION
    11083 (AMINO ACID) (2A)COMPOSITION
L175      10 L151 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
        )COMPOSITION)

FILE 'HCAPLUS'
    38596 SER
    119700 SERINE
    315641 RICH
    2553316 LEVEL#
    4948 (SER OR SERINE) (8A) (RICH OR LEVEL#)
    1167276 AMINO
    4574559 ACID
    588346 AMINO ACID
        (AMINO(W)ACID)
    723003 COMPOSITION
    1531580 COMPN
    1961864 COMPOSITION
        (COMPOSITION OR COMPN)
    29911 (AMINO ACID) (2A)COMPOSITION
L176      26 L152 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
        )COMPOSITION)

FILE 'NTIS'
    438 SER
    578 SERINE
    9733 RICH
    238143 LEVEL#
    26 (SER OR SERINE) (8A) (RICH OR LEVEL#)
    7322 AMINO
    45258 ACID
    2654 AMINO ACID
        (AMINO(W)ACID)
    64397 COMPOSITION
    169 (AMINO ACID) (2A)COMPOSITION
L177      0 L153 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
        )COMPOSITION)

FILE 'ESBIOBASE'
    14901 SER
    32396 SERINE

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56532 RICH
717809 LEVEL#
2352 ((SER OR SERINE) (8A) (RICH OR LEVEL#)
205248 AMINO
402935 ACID
113740 AMINO ACID
      (AMINO(W)ACID)
99818 COMPOSITION
2421 (AMINO ACID) (2A)COMPOSITION
L178 6 L154 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      )COMPOSITION)

FILE 'BIOTECHNO'
11924 SER
28989 SERINE
29372 RICH
367944 LEVEL#
1708 ((SER OR SERINE) (8A) (RICH OR LEVEL#)
204625 AMINO
349810 ACID
154660 AMINO ACID
      (AMINO(W)ACID)
36875 COMPOSITION
5058 (AMINO ACID) (2A)COMPOSITION
L179 3 L155 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      )COMPOSITION)

FILE 'WPIDS'
13584 SER
11087 SERINE
41223 RICH
706149 LEVEL#
206 ((SER OR SERINE) (8A) (RICH OR LEVEL#)
299450 AMINO
1143063 ACID
87042 AMINO ACID
      (AMINO(W)ACID)
820929 COMPOSITION
8849 COMPN
398425 COMPSN
979566 COMPOSITION
      (COMPOSITION OR COMPN OR COMPSN)
1210 (AMINO ACID) (2A)COMPOSITION
L180 3 L156 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      )COMPOSITION)

TOTAL FOR ALL FILES
L181 73 L157 AND ((SER OR SERINE) (8A) (RICH OR LEVEL#) OR (AMINO ACID) (2A
      ) COMPOSITION)

=> s (l169 or l181) not 2004-2008/py
FILE 'MEDLINE'
2828837 2004-2008/PY
      (20040000-20089999/PY)
L182 6 (L158 OR L170) NOT 2004-2008/PY

FILE 'SCISEARCH'
5257377 2004-2008/PY
      (20040000-20089999/PY)
L183 9 (L159 OR L171) NOT 2004-2008/PY

FILE 'LIFESCI'

```

610068 2004-2008/PY
L184 2 (L160 OR L172) NOT 2004-2008/PY

FILE 'BIOTECHDS'
110412 2004-2008/PY
L185 1 (L161 OR L173) NOT 2004-2008/PY

FILE 'BIOSIS'
2438788 2004-2008/PY
L186 6 (L162 OR L174) NOT 2004-2008/PY

FILE 'EMBASE'
2465331 2004-2008/PY
L187 10 (L163 OR L175) NOT 2004-2008/PY

FILE 'HCAPLUS'
5685072 2004-2008/PY
L188 8 (L164 OR L176) NOT 2004-2008/PY

FILE 'NTIS'
68767 2004-2008/PY
L189 0 (L165 OR L177) NOT 2004-2008/PY

FILE 'ESBIODBASE'
1416926 2004-2008/PY
L190 7 (L166 OR L178) NOT 2004-2008/PY

FILE 'BIOTECHNO'
586 2004-2008/PY
L191 6 (L167 OR L179) NOT 2004-2008/PY

FILE 'WPIDS'
4801415 2004-2008/PY
L192 0 (L168 OR L180) NOT 2004-2008/PY

TOTAL FOR ALL FILES
L193 55 (L169 OR L181) NOT 2004-2008/PY

=> dup rem l193
PROCESSING COMPLETED FOR L193
L194 14 DUP REM L193 (41 DUPLICATES REMOVED)

=> d tot

L194 ANSWER 1 OF 14 MEDLINE on STN DUPLICATE 1
TI Engineering Escherichia coli for increased productivity of serine
-rich proteins based on proteome profiling.
SO Applied and environmental microbiology, (2003 Oct) Vol. 69, No. 10, pp.
5772-81.
Journal code: 7605801. ISSN: 0099-2240.
AU Han Mee-Jung; Jeong Ki Jun; Yoo Jong-Shin; Lee Sang Yup
AN 2003497591 MEDLINE

L194 ANSWER 2 OF 14 MEDLINE on STN DUPLICATE 2
TI Insulin resistance and lipodystrophy in mice lacking ribosomal S6 kinase
2.
SO Diabetes, (2003 Jun) Vol. 52, No. 6, pp. 1340-6.
Journal code: 0372763. ISSN: 0012-1797.
AU El-Haschimi Karim; Dufresne Scott D; Hirshman Michael F; Flier Jeffrey S;
Goodyear Laurie J; Bjorbaek Christian
AN 2003292836 MEDLINE

L194 ANSWER 3 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 3
 TI Cooperation between insulin and leptin in the modulation of vascular tone
 SO HYPERTENSION, (AUG 2003) Vol. 42, No. 2, pp. 166-170.
 ISSN: 0194-911X.
 AU Vecchione C; Aretini A; Maffei A; Marino G; Selvetella G; Poulet R;
 Trimarco V; Frati G; Lembo G (Reprint)
 AN 2003:672025 SCISEARCH

L194 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN
 TI Acute and chronic leptin treatment mediate contrasting effects on signaling, glucose uptake, and GLUT4 translocation in L6-GLUT4myc myotubes
 SO Journal of Cellular Physiology (2003), 197(1), 122-130
 CODEN: JCLLAX; ISSN: 0021-9541
 AU Tajmir, Pantea; Kwan, Jamie Jun-Mae; Kessas, Mona; Mozammel, Shehzin; Sweeney, Gary
 AN 2003:713728 HCAPLUS
 DN 140:1133

L194 ANSWER 5 OF 14 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
 TI LEPTIN ENHANCES PDGF-DEPENDENT CELL GROWTH IN HEPATIC STELLATE CELLS: INVOLVEMENT OF THE PI3K-AKT PATHWAY.
 SO Digestive Disease Week Abstracts and Itinerary Planner, (2003) Vol. 2003, pp. Abstract No. 254. e-file.
 Meeting Info.: Digestive Disease 2003. FL, Orlando, USA. May 17-22, 2003. American Association for the Study of Liver Diseases; American Gastroenterological Association; American Society for Gastrointestinal Endoscopy; Society for Surgery of the Alimentary Tract.
 AU Ikejima, Kenichi [Reprint Author]; Lang, Tie [Reprint Author]; Yoshikawa, Mutsuko [Reprint Author]; Hirose, Miyoko [Reprint Author]; Kitamura, Tsuneo [Reprint Author]; Takei, Yoshiyuki [Reprint Author]; Sato, Nobuhiro [Reprint Author]
 AN 2004:26045 BIOSIS

L194 ANSWER 6 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN DUPLICATE 4
 TI Biphasic regulation of extracellular-signal-regulated protein kinase by leptin in macrophages: role in regulating STAT3 Ser(727) phosphorylation and DNA binding
 SO BIOCHEMICAL JOURNAL, (15 JUN 2002) Vol. 364, Part 3, pp. 875-879.
 ISSN: 0264-6021.
 AU O'Rourke L; Shepherd P R (Reprint)
 AN 2002:544834 SCISEARCH

L194 ANSWER 7 OF 14 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN
 TI Ghrelin, an orexigenic signaling molecule from the gastrointestinal tract.
 SO Current Opinion in Pharmacology, (1 Dec 2002) Vol. 2, No. 6, pp. 665-668.
 Refs: 50
 ISSN: 1471-4892 CODEN: COPUBK
 AU Kojima, Masayasu (correspondence)
 CS Molecular Genetics, Institute of Life Science, Kurume University, Kurume, Fukuoka 839-0861, Japan. mkojima@lsi.kurume-u.ac.jp
 AU Kangawa, Kenji
 CS Department of Biochemistry, National Cardiovascular Center, Research Institute, Fujishirodai, Suita, Osaka 565-8565, Japan.
 AN 2002460419 EMBASE

L194 ANSWER 8 OF 14 MEDLINE on STN DUPLICATE 5
 TI Leptin effect on endothelial nitric oxide is mediated through Akt-endothelial nitric oxide synthase phosphorylation pathway.
 SO Diabetes, (2002 Jan) Vol. 51, No. 1, pp. 168-73.

Journal code: 0372763. ISSN: 0012-1797.

AU Vecchione Carmine; Maffei Angelo; Colella Salvatore; Aretini Alessandra;
Poulet Roberta; Frati Giacomo; Gentile Maria Teresa; Fratta Luigi;
Trimarco Valentina; Trimarco Bruno; Lembo Giuseppe
AN 2002045139 MEDLINE

L194 ANSWER 9 OF 14 EMBASE COPYRIGHT (c) 2008 Elsevier B.V. All rights reserved on STN DUPLICATE 6
TI Evaluation of methods for determination of a reconstructed history of gene sequence evolution.
SO Molecular Biology and Evolution, (2001) Vol. 18, No. 11, pp. 2040-2047.
Refs: 31
ISSN: 0737-4038 CODEN: MBEVEO
AU Liberles, D.A. (correspondence)
CS Department of Biochemistry, Stockholm Bioinformatics Center, Stockholm University, 106 91 Stockholm, Sweden. liberles@sbc.su.se
AN 2001387705 EMBASE

L194 ANSWER 10 OF 14 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation on STN
TI Serum values of proinflammatory cytokines are inversely correlated with serum leptin levels in patients with advanced stage cancer at different sites
SO JOURNAL OF MOLECULAR MEDICINE-JMM, (JUL 2001) Vol. 79, No. 7, pp. 406-414.
ISSN: 0946-2716.
AU Mantovani G (Reprint); Maccio A; Madeddu C; Mura L; Massa E; Mudu M C; Mulas C; Lusso M R; Gramignano G; Piras M B
AN 2001:626038 SCISEARCH

L194 ANSWER 11 OF 14 MEDLINE on STN DUPLICATE 7
TI Selective interaction between leptin and insulin signaling pathways in a hepatic cell line.
SO Proceedings of the National Academy of Sciences of the United States of America, (2000 Feb 29) Vol. 97, No. 5, pp. 2355-60.
Journal code: 7505876. ISSN: 0027-8424.
AU Szanto I; Kahn C R
AN 2000160956 MEDLINE

L194 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN
TI Lipoapoptosis in beta-cells of obese prediabetic fa/fa rats. Role of serine palmitoyltransferase overexpression
SO Journal of Biological Chemistry (1998), 273(49), 32487-32490
CODEN: JBCHA3; ISSN: 0021-9258
AU Shimabukuro, Michio; Higa, Moritake; Zhou, Yan-Ting; Wang, May-Yun; Newgard, Christopher B.; Unger, Roger H.
AN 1998:797445 HCAPLUS
DN 130:151958

L194 ANSWER 13 OF 14 MEDLINE on STN DUPLICATE 8
TI Ligand-independent dimerization of the extracellular domain of the leptin receptor and determination of the stoichiometry of leptin binding.
SO The Journal of biological chemistry, (1997 Jul 18) Vol. 272, No. 29, pp. 18304-10.
Journal code: 2985121R. ISSN: 0021-9258.
AU Devos R; Guisez Y; Van der Heyden J; White D W; Kalai M; Fountoulakis M; Plaetinck G
AN 97364760 MEDLINE

L194 ANSWER 14 OF 14 MEDLINE on STN DUPLICATE 9
TI A constitutively active version of the Ser/Thr kinase Akt induces production of the ob gene product, leptin, in 3T3-L1

adipocytes.

SO Endocrinology, (1997 Aug) Vol. 138, No. 8, pp. 3559-62.

Journal code: 0375040. ISSN: 0013-7227.

AU Barthel A; Kohn A D; Luo Y; Roth R A

AN 97375495 MEDLINE

=> d ab 12

L194 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2008 ACS on STN

AB We reported that the lipooapoptosis of beta-cells observed in fat-laden islets of obese fa/fa Zucker Diabetic Fatty (ZDF) rats results from overprod. of ceramide, an initiator of the apoptotic cascade and is induced by long-chain fatty acids (FA). Whereas the ceramide of cytokine-induced apoptosis may be derived from sphingomyelin hydrolysis, FA-induced ceramide overprod. seems to be derived from FA. We therefore semiquantified mRNA of serine palmitoyltransferase (SPT), which catalyzes the first step in ceramide synthesis. It was 2-3-fold higher in fa/fa islets than in +/- controls. [3H]Ceramide formation from [3H]serine was 2.2-4.5-fold higher in fa/fa islets. Triacsin-C, which blocks palmitoyl-CoA synthesis, and L-cycloserine, which blocks SPT activity, completely blocked [3H]ceramide formation from [3H]serine. Islets of fa/fa rats are unresponsive to the lipopenic action of leptin, which normally depletes fat and prevents FA up-regulation of SPT. To determine the role of leptin unresponsiveness in the SPT overexpression, we transferred wild type OB-Rb cDNA to their islets; now leptin completely blocked the exaggerated FA-induced increase of SPT mRNA while reducing the fat content. Beta-cell lipooapoptosis was partially prevented in vivo by treating prediabetic ZDF rats with L-cycloserine for 2 wk. Ceramide content and DNA fragmentation both declined 40-50%. We conclude that lipooapoptosis of ZDF rats is mediated by enhanced ceramide synthesis from FA and that blockade by SPT inhibitors prevents lipooapoptosis.

=> log y

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION

FULL ESTIMATED COST

98.20	98.41
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION

CA SUBSCRIBER PRICE

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